IN THE CLAIMS

The following listing of claims replaces all previous listings and versions of claims in this application.

1. (Currently Amended) A method of preparing a <u>SiC</u> surface of a semiconductor wafer to make it epiready which comprises:

annealing the wafer in an oxidizing atmosphere to condition the <u>SiC</u> surface; and polishing the conditioned <u>SiC</u> surface of the wafer with an abrasive based on particles of colloidal silica in order to provide a wafer surface that is suitable for growing an epitaxial layer thereon.

- 2. (Canceled).
- 3. (Currently Amended) The method of claim 2 1 wherein the wafer comprises a SiC surface layer that is bonded to a semiconductor substrate.
- 4. (Original) The method of claim 1 wherein the annealing is conducted at a temperature of about 1000°C to about 1300°C.
- 5. (Original) The method of claim 4 wherein the annealing is conducted for about 1 hour to about 3 hours.
- 6. (Original) The method of claim 1 which further comprises at least one of deoxidizing the wafer surface or utilizing an RCA (SC1, SC2) type chemical cleaning step prior to polishing.
- 7. (Original) The method of claim 6 wherein the wafer surface is deoxidized with hydrofluoric acid.
- 8. (Original) The method of claim 1 further comprising chemically cleaning the wafer surface prior to polishing.
- 9. (Original) The method of claim 8 wherein the wafer surface is cleaned with hydrofluoric acid.
- 10. (Original) The method of claim 1 wherein the colloidal silica particles used for polishing the wafer surface include SYTON W30 type colloidal silica.

- 11. (Original) The method of claim 1 wherein the polishing is conducted with a polishing head that is rotated at about 10 rpm to about 100 rpm.
- 12. (Original) The method of the claim 11 which further comprises applying a pressure of about 0.1 bar to about 1 bar to the polishing head during rotation.
- 13. (Original) The method of claim 1 which further comprises polishing the wafer surface for about 15 minutes to about 30 minutes.
- 14. (Original) The method claim 1 wherein the polishing is conducted with an IC1000 type polishing pad.
- 15. (Original) The method of claim 1 further comprising etching the wafer surface with ions prior to polishing.
- 16. (Original) The method of claim 1 wherein the polishing is conducted to make the wafer surface suitable for homoepitaxy or heteroepitaxy.
- 17. (Original) The method of claim wherein the polishing is conducted to provide a surface roughness of less than 15 angstroms RMS.
- 18. (Original) The method of claim 1 which further comprises depositing an epitaxial layer upon the polished wafer surface.
- 19. (New) The method of claim 19 wherein the epitaxial layer comprises at least one of SiC, AlN, GaN, or AlGaN.